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1. AGENCY USE ONLY (leave blank)		2. REPORT DATE		3. REPORT TYPE AND DATES COVERED	
4. TITLE AND SUBTITLE Third supplement to :A catalog of the mosquitoes of the world" (Diptera: Culicidae)				5. FUNDING NUMBERS	
6. AUTHOR(S) Ronald A. Ward					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Walter Reed Army Institute of Research Washington, DC 20307-5100				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) US Army Medical Research & Development Command Ft Detrick, Frederick, MD 21702-5012				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES DTIC SELECTED APR 26 1993 S B D					
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release: Distribution unlimited				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Additions and changes in the taxonomic status of mosquitoes from January 1984 through January 1992 are enumerated with the pertinent literature citations. Through this eight year period, there were described nine new subgenera, 128 new species and one new subspecies. One subgenus, 25 species and 16 subspecies or varieties were removed from synonymy. The status of 66 taxa, including synonyms were changed by transfers in generic or subgeneric status. Since 1984 there has been a net change of 145 species added to the world mosquito fauna, resulting in a total of 3,209 valid species.					
14. SUBJECT TERMS Culicidae, catalog				15. NUMBER OF PAGES	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT		

# THIRD SUPPLEMENT TO "A CATALOG OF THE MOSQUITOES OF THE WORLD" (DIPTERA: CULICIDAE)

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**ABSTRACT.** Additions and changes in the taxonomic status of mosquitoes from January 1984 through January 1992 are enumerated with the pertinent literature citations. Through this eight-year period, there were described nine new subgenera, 128 new species and one new subspecies. One subgenus, 25 species and 16 subspecies or varieties were removed from synonymy. The status of 66 taxa, including synonyms, were changed by transfers in generic or subgeneric status. Since 1984 there has been a net change of 145 species added to the world mosquito fauna, resulting in a total of 3,209 valid species.

## INTRODUCTION

Eight years have passed since the publication of the second supplement to the world catalog of mosquitoes (Ward 1984). Since there are no plans for a revision of the world catalog of Knight and Stone (1977) in the near future, this supplement has been compiled to cover the systematic literature from January 1, 1984 through January 31, 1992.

The arrangement of this supplement is similar to that of the second supplement (Ward 1984) except that additional information is provided concerning the sex or stage of the holotype, changes in the deposition of type material and 24 Taxonomic Notes.

All publications containing descriptions of new taxa, revisions and catalogs have been examined with one exception, Lei 1989. In cases where further clarification was required, correspondence with an author or collection manager usually provided the necessary information. Such material is discussed in the Taxonomic Notes.

Valid taxa are indicated by italicized type

while synonyms are underlined and in roman type. The life history stages described in the original paper are indicated by the symbols: ♂ (male), ♀ (female), P (pupa), L (larva), E (egg), Pe (pupal exuviae) and Le (larval exuviae). An asterisk (\*) to the right of a symbol indicates an accompanying illustration of at least a portion of the stage described. Type depositories are referenced by a three- or four-letter abbreviation. With the exception of 11 depositories cited at the end of this paper, the full locations for types are listed in Knight and Stone (1977), Knight (1978) and Ward (1984).

A change has been made for dating papers published in the calendar year following the date printed on the cover of the periodical. To simplify bibliographies, such a paper is listed as: Smith, J. 1990. A new species of . . . (Diptera: Culicidae). *J. Mosq. Res.* (1989) 23:391-397, rather than: Smith, J. 1989 (1990), etc. Complete citations for references given in the synonymies may be found in Knight and Stone (1977), Knight (1978) and Ward (1984).

A number of new synonyms were cited in the Culicidae chapter (Minar 1991) of the Palaeartic Diptera catalog. Since no indication was given for a reference substantiating the new synonymy, and a letter to J. Minar elicited no response, these synonymies are not mentioned in this supplement.

<sup>1</sup> The views of the author do not purport to reflect the position of the Department of the Army or of the Department of Defense.

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SPK

I wish to acknowledge the constructive criticism of R.E. Harbach, E.L. Peyton, J.F. Reinert and R.C. Wilkerson, who reviewed various drafts of the manuscript. Conversations with E.L. Peyton and R.E. Harbach on taxonomic problems were most fruitful. Thomas F. Gaffigan's careful curation of the U.S. National Mosquito Collection unearthed a 'lost' holotype and furnished additional data on a

number of species. The Smithsonian Institution Libraries were extremely helpful in obtaining many of the Chinese references.

A special acknowledgment is due my daughter, Katherine B. Ward, for cheerfully processing the numerous drafts of this manuscript. The final preparation of the diskette was accomplished by J.E. Pecor, who always does a superb job.

### Family Culicidae

#### Subfamily Anophelinae

#### Genus *Anopheles* Meigen

#### Subgenus *Anopheles* Meigen

*anthropophagus* Xu and Feng

Ma 1981:60 (from subspecies of *lesteri*).

*atratypes* Skuse

Lee et al. 1988a:16 (holotype ♀; change MM to ANIC).

*baezai* Gater

Lee et al. 1988a:20 (erroneous publication date, change 1933 to 1934).

*baileyi* Edwards

Harrison et al. 1991:209 (from variety of *gigas*).

*barbumbrosus* Strickland and Chowdhury

*pallidus* Swellengrebel, 1919. Townsend 1990:116 (?syntype ♂; change NE to BM).

*calderoni* Wilkerson

1991: 25 (♂\*, ♀\*, P\*, L\*). Type loc.: Salitral, Department of Piura, Peru (holotype ♀; USNM).

*changfus* Ma

1981:65 (♂\*, ♀\*, E). Type loc.: Emei, Sichuan Prov., P.R. China (holotype ♀; IZ).

*chiriquiensis* Komp

Wilkerson 1990a:179 (from synonymy with *parapunctipennis*).

*claviger* (Meigen)

*griseus* Stephens, 1828. Townsend 1990:80 (2 syntypes; change LU to BM).

*colledgei* Marks

Townsend 1990:62 (holotype ♂; change UQ to ANIC).

*corethroides* Theobald

Marks 1976:118 (listed as species). Lee et al. 1988a:54 (verification as species from synonymy of *stigmaticus*). (Note 1).

*coustani* Laveran

*similis* Theobald, 1901. Townsend 1990:134 (unavailable name; Article 11e, ICZN 1985).

*cucphuongsensis* Phan, Manh, Hinh and Vien

1991:145 (♂\*, ♀\*, P\*, L\*). Type loc.: Cuc-Phuong, Ha-Nam-Ninh Prov., Vietnam (holotype ♀; USNM).

*dazhaius* Ma

1981:65 (♂\*, ♀\*, E\*). Type loc.: Sichuan Prov., P.R. China (holotype ♀; IZ).

*fragilis* (Theobald)

Townsend 1990:75 (2 syntypes: change NE to BM).

*franciscanus* McCracken

Arnaud 1979:57 (lectotype ♂: change LACM to CAS).

*gigas* Giles

var. *simlensis* (James, 1911). Townsend 1990:134 (3 syntypes: change LU to BM).

ssp. *pantjarbatu* Waktoedi, 1954 (authorship changed from Koesoemawinangoen to Waktoedi). (Note 2).

*heiheensis* Ma

1981:66 (♂\*, ♀\*, E). Type loc.: Aihui, Heilungjiang Prov., P.R. China (holotype ♀: IZ).

*hermsi* Barr and Guptavanij

1989:353 (♂, ♀, P, L, E). Type loc.: Malibu Canyon at Pacific Coast Hwy., Los Angeles County, California, USA (holotype ♀ & Pe,Le: USNM).

*kunmingensis* Dong and Wang

1985:117 (♂\*, ♀\*, P\*, L\*, E\*). Type loc.: Long-tan Ba, Kunming, Yunnan Prov., P.R. China (holotype ♀: YIM).

*liangshanensis* Kang, Tan, Cao, Cheng, Yang and Huang

1984:11 (♂\*, ♀\*, P, L\*, E\*). Type loc.: Zhaojiao County, Sichuan Prov., China (holotype ♀, SIP).

*malefactor* Dyar and Knab

Wilkerson 1990b:235 (from synonymy with *punctimacula*).

*marteri* Senevet and Prunelle

Townsend 1990:101 (4 syntypes: add BM).

*sogdianus* Keshishian, 1938. Ribeiro et al. 1987:108 (synonymy).

*mediopunctatus* (Theobald)

*rockefelleri* Peryassu, 1923. Townsend 1990:128 (?syntype: change LU to BM).

*namibiensis* Coetzee

1984:2 (♂, ♀\*, P\*, L\*, E). Type loc.: Mahongo, Kavango, Namibia (holotype ♀: USNM).

*nigerrimus* Giles

*indiensis* Theobald, 1901. Townsend 1990:86 (change BM to NE).

*nilgircus* Christophers

Harrison et al. 1991:199 (from subspecies of *lindesayi*).

*paraliae* Sandosham

Harrison et al. 1991:208 (from subspecies of *lesteri*).

*parapunctipennis* Martini

Wilkerson 1990a:180 (neotype ♂ desig.).

ssp. *guatemalensis* De Leon, 1938. Wilkerson 1990a:181 (from variety to subspecies: lectotype ♀ desig.).

*petragnani* Del Vecchio

*portucaliensis* Figueiredo, 1904. Ribeiro et al. 1988:235 (from variety of *bifurcatus* auct. to synonymy with *petragnani*).

*peytoni* Kulasekera, Harrison and Amerasinghe

1989:303 (♂\*, ♀, P\*, L\*). Type loc.: Kanneliya, Galle District, Sri Lanka (holotype ♂ & Pe,Le: USNM).

*stigmaticus* Skuse

Lee et al. 1988a:95 (2 syntypes: change MM to ANIC).

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*subalpinus* Hackett and Lewis

Ribeiro et al. 1988:23 (from subspecies of *melanoon*).

*xiaokuanus* Ma

1981:67 (♂\*, ♀\*, E\*). Type loc.: Mudangjiang, Heilungjiang Prov., P.R. China (holotype ♀; IZ).

### Subgenus *Cellia* Theobald

*annularis* Van der Wulp

*fuliginosus* Giles, 1900. Townsend 1990:76 (2 syntypes; change NE to BM).

*annulatus* Haga

Lee et al. 1988a:133 (lectotype ♂ desig.: BM). Townsend 1990:43 (2 syntypes; improper attribution).

*annulipes* Walker

*musivus* Skuse, 1889. Lee et al. 1988a:136 (type ♀; change MM to ANIC).

*mastersi* Skuse, 1889. Lee et al. 1988a:136 (3 syntypes; change MM to ANIC).

*perplexus* Taylor, 1943. Lee et al. 1988a:136 (lectotype ♂ desig.: change US to ANIC).

*persimilis* Taylor, 1943. Lee et al. 1988a:136 (type ♀; change US to ANIC).

*derricki* Taylor, 1943. Lee et al. 1988a:136 (lectotype ♂ desig.: change US to ANIC).

*apoci* Marsh

Townsend 1990:44 (2 syntypes; change LU to BM).

*arabiensis* Patton

*quadriannulatus davidsoni* Ribeiro, Cunha Ramos, Pires and Capela, 1979. Cambournac et al. 1982:266 (synonymy).

*argenteolobatus* (Gough)

*pseudosquamosa* Newstead and Carter, 1911. Townsend 1990:124 (holotype; change LSTM to BM).

*buxtoni* Service

Townsend 1990:55 (lectotype ♂ desig.: BM).

*bwambae* White

1985:506 (♂\*, ♀\*, P\*, L\*, E\*). Type loc.: Mongiro, Semliki Forest, Bwamba County, Uganda (holotype ♀; BM).

*cameroni* de Meillon and Evans

Townsend 1990:57 (holotype; change SAIM to BM).

*carteri* Evans and de Meillon

Townsend 1990:58 (6 syntypes; change LSTM to BM).

*cinereus* Theobald

*ssp. hispaniola* (Theobald, 1903). Ribeiro et al. 1980:132 (from species to subspecies).

*cydippis* de Meillon

Segerman 1990:53 (holotype; from SAIM to LU).

*dancalicus* Corradetti

Townsend 1990:65 (3 syntypes; add BM).

*daudi* Coluzzi

Townsend 1990:65 (syntype; add BM).

*dispar* Rattananarithikul and Harbach

1991:176 (♂\*, ♀, P\*, L\*). Type loc.: Subic Bay, Pastolan, Bataan Prov., Luzon, Philippines (holotype ♀; USNM).

*dravidicus* Christophers

Rattanaarithikul and Green 1987:261 (from synonymy of *maculatus*: lectotype ♀ desig.: BM).

*elegans* James

Townsend 1990:70 (improper "type" desig.; BM).

*erepens* Gillies

Gillies and Coetzee 1987:95 (from subspecies of *wellcomei*).

*ethiopicus* Gillies and Coetzee

1987:76 (♀\*). Type loc.: Gambela, Illubabor Prov., Ethiopia (holotype ♀: BM).

*fluvialis* James

*arabica* Christophers and Chand. 1915. Townsend 1990:45 (?2 syntypes; change LU to BM).

*funestus* Giles

*anisochloros* Theobald. 1903. Townsend 1990:43 (syntype; change NE to BM).

*subumbrosa* Theobald. 1903. Townsend 1990:138 (syntype; change LSTM to BM).

*umbrosa* Theobald. 1903 (*non umbrosus* Theobald 1903:87). Townsend 1990:145 (syntype; change NE to BM).

*greeni* Rattanaarithikul and Harbach

1991:170 (♂, ♀\*, P\*, L\*). Type loc.: Wawa, Montalban, Rizal Prov., Luzon, Philippines (holotype ♀: USNM).

*indefinitus* (Ludlow)

*formosaensis* II Tsuzuki. 1902. Townsend 1990:74 (syntype ♂; change LU to BM).

*introlatus* Colless

Hii et al. 1988:43 (from subspecies of *balabacensis*).

*jeyporiensis* James

Harrison 1980:69 (change BM to LU).

*kochi* Doenitz

Townsend 1990:91 (syntype; add BM).

*ocellatus* Theobald. 1901. Townsend 1990:114 (unavailable name: Article 11e. ICZN 1985).

*kosiensis* Coetzee, Segerman and Hunt

1987:26 (♀, P, L, E\*, X-chromosome\*). Type loc.: Kosi Bay, northern Zululand, South Africa (holotype ♀ & Pe.Le: SAIM).

*leucosphyrus* Doenitz

Townsend 1990:94 (2 syntypes; add BM).

*lounibosi* Gillies and Coetzee

1987:73 (♀, L\*). Type loc.: Kombeni River, Rabai, Kilifi Dist., Kenya (holotype L: BM). (Note 3).

*ludlowae* (Theobald)

ssp. *torakala* Stoker and Waktoedi. 1949 (authorship changed from Koesoemawiwangoen to Waktoedi). (Note 2).

*macarthuri* Colless

Hii et al. 1988:43 (from subspecies of *riparis*).

*maculatus* Theobald

Rattanaarithikul and Green 1987:252 (lectotype ♂ desig.: BM).

*majidi* Young and Majid

Townsend 1990:100 (5 syntypes; add BM).

*mangyanus* (Banks)

McCabe and Johnson 1980:28 (syntype ♀: change NE to NY).

*nemophilous* Peyton and Ramalingam

1988:276 (♂\*, ♀\*, P\*, L\*). Type loc.: Ban Bang Ra Ko, Phangnga Prov., Thailand (holotype ♀ & Pe.Le; USNM).

*notanandai* Rattanaarithikul and Green

1987:259 (♂, ♀\*, E\*). Type loc.: Ban Tah Cha Lao, Tha Yang, Phetchaburi Prov., Thailand (holotype ♀ & Pe.Le; USNM).

*paltrinierii* Shidrawi and Gillies

1988:202 (♂\*, ♀, P, L\*). Type loc.: Dank River and Nizra River, Oman (holotype ♀; BM).

*pauliani* Grjebine

Townsend 1990:118 (add L syntype; BM).

*pharoensis* Theobald

bozasi Neveu-Lemaire, 1905. Rodhain and Boutonnier 1985:273 (2 syntypes: change FMP to PIP).

*pseudojamesi* Strickland and Chowdhury

ramsavi Covell, 1927. Nurul Huda and Harrison 1985:49 (synonymy).

*pseudowillmori* (Theobald)

Rattanaarithikul and Green 1987:252 (from synonymy with *maculatus*).

*punctulatus* Doenitz

Townsend 1990:125 (add 3 syntypes; BM).

*ranci* Grjebine

Townsend 1990:127 (add 2 syntypes; BM).

*salbaii* Maffi and Coluzzi

Townsend 1990:130 (add 40 syntypes; BM).

*sawadwongporni* Rattanaarithikul and Green

1987:256 (♂, ♀\*, E\*). Type loc.: Ban Thung Khua Mu, Rong Kwang, Phrae Prov., Thailand (holotype ♀ & Pe, Le; USNM).

*somalicus* Rivola and Holstein

Townsend 1990:135 (add 2 L syntypes; BM).

*squamosus* Theobald

tanariviensis Ventrillon, 1906. Townsend 1990:140 (add ?syntype; BM).

*stephensi* Liston

Townsend 1990:136 (2 syntypes: change LU to BM).

*sulawesi* Waktoedi

Hii et al. 1988:43 (authorship changed from Koesoemawinangoen to Waktoedi).

*tchekedii* de Meillon and Leeson

Segerman 1990:53 (change BM and SAIM to BM).

*tessellatus* Theobald

ssp. *kalawara* Stoker and Waktoedi, 1949 (authorship changed from Koesoemawinangoen to Waktoedi). (Note 2).

*theileri* Edwards

albipes Theobald, 1911. Townsend 1990:39 (add 2 ♀ syntypes; BM).

*turkhudi* Liston

amutis De Burca, 1943. Townsend 1990:42 (lectotype ♂ desig.; BM).

*vagus* Doenitz

- albino Stoker and Waktoedi. 1949 (authorship changed from Koesoemawinagoen to Waktoedi). (Note 2).
- vaneedeni Gillies and Coetzee  
1987:81 (♂\*, ♀\*, P, L). Type loc.: Pusela, Tzaneen, South Africa (holotype ♀; BM). (Note 4).
- varuna Iyengar  
Townsend 1990:147 (specimens not syntypes; type loc. India, not Sri Lanka, see Iyengar 1924:25). (Note 5).
- vinckei de Meillon  
Segerman 1990:53 (holotype; change SAIM to LU).
- willmori (James)  
Rattanarithikul and Green 1987:254 (emend. from willmorei to original spelling; from variety of maculatus; lectotype ♀ desig., BM).
- dudgeonii Theobald, 1907. Townsend 1990:69 (erroneous attribution of lectotype desig. to Rattanarithikul and Green 1987:256).
- maculosa James and Liston, 1911. Rattanarithikul and Green 1987:256 (lectotype ♀ desig., BM).

### Subgenus *Nyssorhynchus* Blanchard

- albitarsis Lynch Arribalzaga  
Rosa-Freitas and Deane 1989:289 (neotype ♀ desig.; IOC).
- deaneorum Rosa-Freitas  
1989:535 (♂\*, ♀\*, P, L\*, E). Type loc.: Guajara-Mirim, Palheta, Rondonia State, Brazil (holotype ♀; IOC).
- marajoara Galvao and Damasceno  
Linthicum 1988:198 (from synonymy with albitarsis; holotype in FMSP).
- domesticus Galvao and Damasceno, 1944. Linthicum 1988:198 (synonymy).
- nigritarsis (Chagas)  
Townsend 1990:110 (? syntype ♀; change LU to BM).
- sawyeri Causey, Deane, Deane and Sampaio  
Linthicum 1988:155 (from subspecies of argyritarsis).

### Genus *Bironella* Theobald

#### Subgenus *Brugella* Edwards

- hollandi Taylor  
Lee et al. 1988d:47 (holotype ♂; change US to ANIC).

### Subgenus *Neobironella* Tenorio

- derooki Soesilo and Slooten  
Evenhuis and Gon 1989:194 (from synonymy of soesiloi).
- soesiloi Strickland and Chowdhury, 1931. Evenhuis and Gon 1989:194 (synonymy).



**Subfamily Culicinae****Tribe Aedini****Genus *Aedes* Meigen****Subgenus *Aedes* Meigen***dahuricus* Danilov

1987b:41 (♂\*, ♀\*, L\*). Type loc.: Kubukhai, Onan District, Chita Prov., USSR (holotype ♀ & L: IMP).

*mubiensis* Luh and Shih

1958:226 (♂\*, ♀). Type loc.: Mubien, Guanxi Autonomous Region, China (AMC).

**Subgenus *Aedimorphus* Theobald***aerarius* McIntosh

Segerman 1990:53 (holotype from SAIM to NIV).

*albodorsalis* Fontenille and Brunhes

1985:151 (♀\*). Type loc.: Fenerive, Tamatave Prov., Madagascar (holotype ♀; MNHP).

*bambiotai* Geoffroy

1987:101 (♂\*, ♀\*, E\*). Type loc.: Andiopodoume forest, Ivory Coast (holotype ♂; USNM). (Note 6).

*bancoi* Geoffroy

1987:103 (♂\*). Type loc.: Banco forest, near Abijan, Ivory Coast (holotype ♂; USNM).

*masoalensis* Fontenille and Brunhes

1985:153 (♀\*). Type loc.: Onive Valley, Masola, Diego-Suarez Prov., Madagascar (holotype ♀; MNHP).

*mathioti* Fontenille and Brunhes

1985:154 (♀\*). Type loc.: Onive Valley, Masola, Diego-Suarez Prov., Madagascar (holotype ♀; MNHP).

*pallidostratus* (Theobald)

parascelos Theobald, 1910. Townsend 1990:118 (syntype ♀; BM).

*taeniorhynchoides* (Christophers)

Townsend 1990:140 (change BM to LU).

*tarsalis* (Newstead)

biannulata Theobald, 1907. Townsend 1990:52 (lectotype ♂ desig.; BM).

*veeniae* McIntosh

Segerman 1990:53 (holotype from SAIM to NIV).

*vittatus* (Bigot)

brumpti Neveu-Lemaire, 1905. Rodhain and Boutonnier 1985:275 (holotype ♀; change NE to PIP).

**Subgenus *Alanstonea* Mattingly***treubi* (De Meijere)

Townsend 1990:143 (syntype ♀; BM).

**Subgenus *Albuginosus* Reinert**

*Albuginosus* Reinert, 1987:308. Type species: *Stegomyia marshallii* Theobald.

*capensis* Edwards

Reinert 1987:307 (from subgenus *Aedimorphus*).

*gilliesi* Van Someren

Reinert 1987:307 (from subgenus *Aedimorphus*).

*haworthi* Edwards

Reinert 1987:307 (from subgenus *Aedimorphus*).

*kapretwae* Edwards

Reinert 1987:307 (from subgenus *Aedimorphus*).

*kennethi* Muspratt

Reinert 1987:307 (from subgenus *Aedimorphus*).

*marshallii* (Theobald)

Reinert 1987:307 (from subgenus *Aedimorphus*).

*ngong* Van Someren

Reinert 1987:307 (from subgenus *Aedimorphus*).

*stokesi* Evans

Reinert 1987:307 (from subgenus *Aedimorphus*).

*teesdalei* Van Someren

Reinert 1987:307 (from subgenus *Aedimorphus*).

**Subgenus *Diceromyia* Theobald***cordellieri* Huang

1986a:636 (♂\*, ♀\*, P\*, L\*). Type loc.: Dezidougou. M'Bahiakro. Centre Departement. Ivory Coast (holotype ♂ & Pe.Le; USNM).

**Subgenus *Edwardsaedes* Belkin***pingpaensis* Chang

*antuensis* Su, Wang and Li, 1978. Danilov 1985:380 (synonymy).

**Subgenus *Finlaya* Theobald***alboxanatus* (Leicester)

*mikiranus* Edwards, 1922. Harrison et al. 1991:211 (synonymy).

*aureostriatus* (Doleschall)

*leucopleurus* Rozeboom, 1946. Reinert 1990b:51 (synonymy).

*auridorsum* Edwards

Townsend 1990:48 (change BM to LU).

*axitiosus* Kulasekera, Knight and Harbach

1990:26 (♂\*, ♀, P\*, L\*). Type loc.: Rayoh, Tenom, Sabah, Malaysia (holotype ♂ & Pe.Le; USNM).

*formosensis* Yamada

Rattanaarithikul and Harrison 1988:82 (lectotype ♀ desig.; IID).

*khassiana* Barraud, 1923. Rattanaarithikul and Harrison 1988:83 (lectotype ♀ desig.; BM).

*gilcolladoi* Sanchez-Covisa V., Rodriguez R. and Guillen L.

1985:441 (L\*). Type loc.: Spain (no additional data). (Note 7).

*gonguoensis* Gong and Lu

1986:1 (♂\*, ♀, L\*). Type loc.: Gonguo, Yunnan Prov., P.R. China (holotype ♀; YIE).

*greenii* (Theobald)

Harrison et al. 1991:211 (from subspecies of *aureostriatus*).

*kanaranus* Barraud, 1924. Townsend 1990:90 (2 syntypes; change LU to BM).

Harrison et al. 1991:212 (transferred synonymy from var. of *aureostriatus*).

*horotoi* Taylor

Lee et al. 1982:166 (change BBM to LU).

*kochi* (Doenitz)

Townsend 1990:91 (syntype ♀; BM).

*leonis* Colless

Harrison et al. 1991:199 (from subspecies of *niveus*).

*macfarlanei* (Edwards)

*hegneri* Causey, 1937. Harrison et al. 1991:212 (synonymy).

*mallochi* Taylor

Townsend 1990:100 (syntype ♀; BM, may invalidate neotype of Knight and Marks 1952:558). (Note 8).

*mikrokopion* Knight and Harrison

1988:215 (♂\*, ♀\*, P\*, L\*). Type loc.: Sangkhla Buri, Kanchanaburi Prov., Thailand (holotype ♂ & Pe.Le; USNM).

*pecuniosus* Edwards

Reinert 1988:59 (♀\*: from synonymy of *purpureus*).

*reinerti* Rattananarithikul and Harrison

1988:78 (♂\*, ♀\*, P\*, L\*). Type loc.: Doi Inthanon, Chiang Mai Prov., Thailand (holotype ♂ & Pe.Le; USNM).

### Subgenus *Geoskusea* Edwards

*lunulatus* King and Hoogstraal

Marks in Lee et al. 1984:13 (from subgenus *Pseudoskusea*).

### Subgenus *Halaedes* Belkin

*Caenocephalus* Taylor, 1914 (*non Caenocephalus* Van der Wulp, 1898). Lee et al. 1984:241 (transferred synonymy from subgenus *Pseudoskusea*).

*ashworthi* Edwards

Marks in Lee et al. 1984:19 (from synonymy of *australis*).

*australis* (Erichson)

*concolor* Taylor, 1914. Townsend 1990:62 (6 syntypes; BM).

### Subgenus *Kenknightia* Reinert

*Kenknightia* Reinert, 1990b:4. Type species: *Stegomyia dissimilis* Leicester.

*dissimilis* (Leicester)

Reinert 1990b:18 (from subgenus *Finlaya*; lectotype ♂ desig.; BM).

*gaffigani* Reinert

1990b:24 (♀\*, P\*, L\*). Type loc.: Pensiangan, Sabah, Malaysia (holotype ♀ & Pe.Le; USNM).

*harbachi* Reinert

1990b:27 (♂\*, ♀\*, P\*, L\*). Type loc.: Doi Suthep, Ban Choeng, Chiang Mai Prov., Thailand (holotype ♂ & Pe.Le; USNM).

*karwari* (Barraud)

Reinert 1990b:32 (from variety of *dissimilis* to species status, from subgenus *Finlaya*: lectotype ♀ desig.; BM).

*lerozeboomi* Reinert

1990b:33 (♂\*, ♀\*, P\*, L\*). Type loc.: Calso, Dalton Pass, Nueva Viscaya, Philippines (holotype ♂ & Pe.Le: USNM).

*leucomeres* (Giles)

Reinert 1990b:37 (from subgenus *Finlaya*).

*litwakae* Reinert

1990b:39 (♂\*, ♀\*, P\*, L\*). Type loc.: Caburan, Davao, Mindanao, Philippines (holotype ♂ & Pe.Le: USNM).

*luzonenesis* Rozeboom

Reinert 1990b:43 (from subgenus *Finlaya*).

*paradisissimilis* Rozeboom

Reinert 1990b:47 (from subgenus *Finlaya*).

*pecori* Reinert

1990b:52 (♂\*, ♀\*, P\*, L\*). Type loc.: Gunong Jasar, Cameron Highlands, Penang, Malaysia (holotype ♀ & Pe.Le: USNM).

*wilkersoni* Reinert

1990b:56 (♂\*, ♀\*, P\*, L\*). Type loc.: Ulu Gombak, Selangor, Malaysia (holotype ♂ & Pe.Le: USNM).

**Subgenus *Levua* Stone and Bohart***geoskusea* Amos

Lee et al. 1984:44 (unjustified synonymy with *suvae*). (Note 9).

**Subgenus *Neomelaniconion* Newstead***luridus* McIntosh

Segerman 1990:53 (holotype; change SAIM to NIV).

*mcintoshi* Huang

1987:109 (♂\*, ♀\*). Type loc.: Onderstepoort, Transvaal, South Africa (holotype ♂: USNM).

*unidentatus* McIntosh

Segerman 1990:53 (holotype; from SAIM to NIV).

**Subgenus *Ochlerotatus* Lynch Arribalzaga***albineus* Seguy

Townsend 1990:39 (2 syntypes; BM).

*camptorhynchus* (Thomson)

*annulipes* Taylor, 1914. Townsend 1990:42 (?3 syntypes; BM).

*detritus* (Haliday)

*maculosa* Theobald, 1905. Townsend 1990:99 (syntype ♀; BM).

*eidsvoldensis* Mackerras

Lee et al. 1984:145 (from subspecies of *theobaldi*).

*excrucians* (Walker)

*abfitchii* Felt, 1904. McCabe and Johnson 1980:27 (lectotype L desig. by D.M. Wood: NY).

*flavescens* (Mueller)

Townsend 1990:73 (syntype ♀; change O to BM).

*flavescens* Theobald, 1901. Townsend 1990:73 (syntype ♀; change O to BM).

*imperfectus* Dobrotworsky

Lee et al. 1984:154 (holotype ♂ & Pe,Le; change USNM (error in Knight and Stone 1977:134) to NMM).

*implicatus* Vockeroth

Ward 1987:95 (from synonymy of *leucomelas*).

*intermedius* Danilov and Gornostaeva

1987:612 (♂\*, ♀\*, L\*). Type loc.: Abakan, Khakas Autonomous Prov., Krasnoyarsk Territory, USSR (holotype ♂ & Le; IMP).

*juppi* McIntosh

Knight and Stone 1977:135 (type in SAIM). (Note 10: change SAIM to NIV).

*lasaensis* Meng

ssp. *gyirongensis* Ma

1982:162 (♂\*, ♀). Type loc.: Gyirong, Xizang Autonomous Region, P.R. China (holotype ♂; IZ).

*longifilamentus* Su and Zhang

1988:11 (♂\*, ♀). Type loc.: Yumin, Xinjiang Uygur Autonomous Region, P.R. China (holotype ♂; AMC).

*normanensis* (Taylor)

Townsend 1990:112 (?2 syntypes; BM).

*pulcritarsis* (Rondoni)

Snow 1986:361 (corrected specific epithet from *pulchritarsis*, Article 32b, ICZN 1985).

*pullatus* (Coquillett)

*seguyi* Apfelbeck, 1929. Townsend 1990:132 (4 syntypes; change LU to BM).

*quasirusticus* Torres Canamares

Townsend 1990:126 (3 syntypes; change ?BM to BM).

*rhyacophilus* Da Costa Lima

Sallum et al. 1988:67 (from synonymy with *scapularis*; lectotype ♀ desig.: IOC).

*riparioides* Su and Zhang

1987:450 (♂\*, ♀, L\*). Type loc.: Jingpeng, Keshiketeng Banner, Inner Mongolia Autonomous Region, P.R. China (holotype ♀; BMC).

*sagax* (Skuse)

*wilsoni* Taylor, 1919. Townsend 1990:151 (add 10 syntypes; BM).

*sedaensis* Lei

1989:6 (♂, ♀, L). Type loc.: Seda and Songpan counties, Sichuan Prov., P.R. China (holotype ♀; SIP).

*simanini* Gutsevich

Ward 1987:95 (from synonymy of *niphadopsis*).

*sticticus* (Meigen)

*paradianteus* Apfelbeck, 1929. Townsend 1990:118 (syntype ♂; change LU to BM).

*stramineus* Dubitzky

Ward 1987:95 (from synonymy of *albineus*).

*tahoensis* Dyar

Brust and Munstermann 1992:2 (from synonymy with *communis*).

**Subgenus *Rhinoskusea* Edwards**

*portonovoensis* Tewari and Hiriyan

1992:123 (♂\*, ♀\*, P\*, L\*). Type loc.: Pichavaram mangrove swamp, South Arcot District, India (holotype ♂ & Pe,Le: USNM).

**Subgenus *Rusticoidus* Shevchenko and Prudkina**

*krymmontanus* Alekseev

1989:173 (♂\*, ♀\*, L\*). Type loc.: southern slope of Crimean Mountains, Crimea, USSR: (holotype adult: A). (Note 11).

*refiki* Medschid

Townsend 1990:128 (3 syntypes: change LU to BM).

**Subgenus *Scutomyia* Theobald**

*Scutomyia* Theobald, 1904. Reinert 1985:121 (from synonymy with *Stegomyia*). Type species: *Scutomyia albolineata* Theobald.

*albolineatus* (Theobald)

Reinert 1985:121 (from subgenus *Stegomyia*).

*arboricola* Knight and Rozeboom

Reinert 1985:121 (from subgenus *Stegomyia*).

*bambusicola* Knight and Rozeboom

Reinert 1985:121 (from subgenus *Stegomyia*).

*boharti* Knight and Rozeboom

Reinert 1985:121 (from subgenus *Stegomyia*).

*hoogstraali* Knight and Rozeboom

Reinert 1985:121 (from subgenus *Stegomyia*).

*impatibilis* (Walker)

Reinert 1985:121 (from subgenus *Stegomyia*).

*laffooni* Knight and Rozeboom

Reinert 1985:121 (from subgenus *Stegomyia*).

*platylepidus* Knight and Hull

Reinert 1985:121 (from subgenus *Stegomyia*).

*pseudalbolineatus* Brug

Reinert 1985:121 (from subgenus *Stegomyia*).

**Subgenus *Sinoaedes* Gong and Lu**

*Sinoaedes* Gong and Lu, 1991:55. Type species: *Aedes occidentayunnanus* Gong and Lu.

*occidentayunnanus* Gong and Lu

1991:55 (♂\*, ♀\*, L\*). Type loc.: Longchuan County, Yunnan Prov., P.R. China (holotype ♂: YIE).

**Subgenus *Skusea* Theobald**

*lambrechtii* Van Someren

Townsend 1990:92 (change BM to NE).

**Subgenus *Stegomyia* Theobald***aegypti* (Linnaeus)

*lamberti* Ventrillon, 1904. Rodhain and Boutonnier 1985:275 (from synonymy of *albopictus*, 2 syntypes; PIP). Townsend 1990:92 (8 syntypes; change LU to BM).

*queenslandensis* Theobald, 1901. Lee et al. 1987:14 (synonymy).

*africanus* (Theobald)

Huang 1990:16 (lectotype ♂ desig.; BM).

*apicoargenteus* (Theobald)

Townsend 1990:44 (lectotype ♀ desig.; BM).

ssp. *denderensis* Wolfs, 1949. Townsend 1990:66 (add 6 syntypes; BM).

*calceatus* Edwards

Edwards 1924:197 [Townsend 1990:56 (erroneously attributed to Edwards (1941:142) by Knight and Stone (1977:158)). (Note 12).

*chaussieri* Edwards

Rodhain and Boutonnier 1985:275 (syntype ♀; PIP).

*corneti* Huang

1986b:765 (♂\*, ♀\*, P\*, L\*). Type loc.: Tiwai Island (Moa River), Potoro, Southern Prov., Sierra Leone (holotype ♂ & Pe,Le; USNM).

*edwardsi* (Barraud)

Townsend 1990:70 (9 syntypes; BM).

*galloisiodes* Liu and Lu

1984:76 (♂\*, ♀, L\*). Type loc.: Kumming, Yunnan Prov., P.R. China (holotype ♀; KIM).

*joshiahae* Huang

1988a:155 (♂\*, ♀\*). Type loc.: 60–70 km s Ifakara, Tanzania (holotype ♂; VBDK).

*katherinensis* Woodhill

Lee et al. 1987:124 (from subspecies of *scutellaris*).

*luteocephalus* (Newstead)

Huang 1990:27 (lectotype ♀ desig.; BM).

*maxgermaini* Huang

1990:31 (♀\*). Type loc.: Mamfe, West Cameroon, Cameroon (holotype ♀; USNM).

*mickevichae* Huang

1988b:6 (♀\*). Type loc.: Kaunro, Kenya (holotype ♀; BM).

*saimedres* Huang

1988b:10 (♀\*). Type loc.: Okokara, Namibia (holotype ♀; BM).

*soleatus* Edwards

1924:198 [Townsend 1990:135 (erroneously attributed to Edwards (1941:142) by Knight and Stone (1977:165)). (Note 12).

*strelitziae* Muspratt

Segerman 1990:54 (holotype; change ?SAIM to SAIM).

*tabu* Ramalingam and Belkin

Lee et al. 1987:229 (from subspecies of *tongae*).

**Subgenus *Verrallina* Theobald**

Reinert 1984:3 (redescription).

*azureosquamatus* Bonne-Wepster

Lee et al. 1987:259 (holotype ♀; change LM to ITH).

*cunninghami* Taylor

Reinert 1974:17 (from subgenus *Aedes*).

*lugubris* Barraud

Reinert 1984:39 (lectotype ♀ desig.: BM).

*pseudomediofasciatus* (Theobald)

Reinert 1984:45 (lectotype ♂ desig.: BM).

*spermathecus* Wijesundara

Reinert 1974:17 (from subgenus *Aedes*). Townsend 1990:136 (syntype ♀: change MRI to BM).

*uniformis* (Theobald)

Reinert 1974:17 (from subgenus *Aedes*).

*varietas* (Leicester)

Townsend 1990:147 (erroneous lectotype desig.). (Note 13).

**Subgenus uncertain***daliensis* (Taylor)

Lee et al. 1984:46 (?near subgenus *Levua* from subgenus *Geoskusea*).

**Genus *Armigeres* Theobald****Subgenus *Armigeres* Theobald***breinli* (Taylor)

Lee et al. 1988d:6 (lectotype ♀: change US to ANIC).

*denbesteni* Brug

spathulatus Brug. 1939. Townsend 1990:136 (?holotype ♂: BM).

*durhami* Edwards

javanensis Brug. 1939. Ramalingam 1987:64 (from variety of *kuchingensis* to synonymy of *durhami*).

*kesseli* Ramalingam

1987:56 (♂\*, ♀\*, P\*, L\*). Type loc.: Ulu Gombak, Selangor, Malaysia (holotype ♂ & Pe,Le: USNM).

*malayi* (Theobald)

fusca Theobald, 1903. Townsend 1990:77 (unjustified removal from synonymy). (Note 14).

*milnensis* Lee

ventralis Walker, 1865 (*Culex*), (*non* Walker, 1860). Marks in Lee et al. 1988d:19 (from *nomen dubium* of genus *Culex* to synonymy; syntype ♀: change NE to NMM).

*obturans* (Walker)

Lee et al. 1988d (holotype ♀: change NE to NMM, from *nomen dubium*).

*sexicoxitus* Luh and Li

1981:188 (♂\*, ♀). Type loc.: Guangxi Autonomous Region, P.R. China (holotype ♀: AMC).

**Subgenus *Leicesteria* Theobald***magnus* (Theobald)

Townsend 1990:100 (syntype ♂: BM).



**Genus *Eretmapodites* Theobald**

*mortiauxi* Cunha Ramos and Ribeiro

1990:139 (♂\*). Type loc.: Dundo (Carisso Park), Angola (holotype ♂: IHMT).

*silvestris* Ingram and de Meillon

Townsend 1990:133 (lectotype ♀ desig.: BM).

**Genus *Haemagogus* Williston****Subgenus *Haemagogus* Williston**

*anastasionis* Dyar

dominguezi Duret, 1971. Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*capricornii* Lutz

Xavier and da Silva Mattos 1989:50 (neotype ♀ & Pe.Le: CPRR).

*lucifer* (Howard, Dyar and Knab)

Townsend 1990:96 [invalid syntype ♀; see lectotype ♂ desig., Dyar 1921:107 (Article 73b(ii) ICZN 1985)].

**Genus *Heizmannia* Ludlow****Subgenus *Heizmannia* Ludlow**

*greenii* (Theobald)

Amerasinghe 1989:86 (lectotype ♂ desig.: BM).

*heterospina* Gong and Lu

Lu and Gong 1986:183 (♂\*). Type loc.: Xianguan, Yunnan Prov., P.R. China (holotype ♂: YIE).

*lii* Wu

Townsend 1990:44 (add 6 syntypes; BM).

*menglianensis* Lu and Gong

1986:184 (♂\*, ♀\*, L). Type loc.: Menglian, Yunnan Prov., P.R. China (holotype ♀: YIE).

**Genus *Psorophora* Robineau-Desvoidy****Subgenus *Janthinosoma* Lynch Arribalzaga**

*lutzii* (Theobald)

chaquensis Paterson and Shannon, 1927. Knight and Stone 1977:190 (holotype ♀; change NE to USNM). (Note 15).

*pilosus* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

*pseudoalbipes* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

*varipes* (Coquillett)

ferraro Duret, 1971. Harbach et al. 1991:193 (holotype ♂; change A to USNM).

**Genus *Udaya* Thurman**

*subsimilis* (Barraud)

Reinert 1990a:207 (from genus *Aedes*, subgenus *Finlaya*).

## Tribe Culicini

Genus *Culex* LinnaeusSubgenus *Afrocullex* Danilov

*Afrocullex* Danilov, 1989:790. Type species: Pseudohowardina lineata Theobald.  
*lineata* (Theobald)

Danilov 1989:790 (from subgenus *Maillotia*).

pulchrithorax Edwards, 1914. Danilov 1989:790 (from subgenus *Maillotia*; synonymy).

Subgenus *Allimanta* Casal and Garcia

*iramazayguesi* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

Subgenus *Anoedioporpa* Dyar

*helemensis* Duret and Damasceno

Harbach et al. 1991:192 (holotype ♂; change A to USNM).

*damascenoi* Duret

Harbach et al. 1991:193 (holotype ♂; change A to USNM).

*quasioriginator* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

Subgenus *Culex* Linnaeus

*annulioris consimilis* Newstead

pseudoannulioris Theobald, 1909. Townsend 1990:123 (lectotype ♀ desig.; BM).

*annulirostris* Skuse

Lee et al. 1989a:36 (holotype ♀; change MM to ANIC).

somerseti Taylor, 1912. Lee et al. 1989a:36 (holotype ♀; change US to ANIC).

consimilis Taylor, 1913. Lee et al. 1989a:36 (holotype ♀; change US to ANIC).

simplex Taylor, 1914. Lee et al. 1989a:36 (holotype ♀; change US to ANIC).

*antennatus* (Becker)

laurenti Newstead, 1907. Harbach 1988:48 (lectotype ♂ desig.; BM).

*aquarius* Strickman

1990:150 (♂\*, ♀\*, P\*, L\*). Type loc.: San Isidro de Coronada, San Jose Prov., Costa Rica  
(holotype ♂ & Pe,Le; USNM).

*argenteopunctatus* (Ventrillon)

Townsend 1990:45 (add 2 syntypes; BM).

*bitaeniorhynchus* Giles

Harbach 1988:105 (neotype ♂ desig.; BM).

ager Giles, 1901. Townsend 1990:38 (neotype ♂ desig.; BM—same specimen as neotype of  
*bitaeniorhynchus*).

ethiopicus Edwards, 1912. Harbach 1988:101 (synonymy).

*brumpti* Gaillard

Townsend 1990:55 (lectotype ♀ desig.; change LU to BM).

*chitae* Duret

Harbach et al. 1991:193 (holotype ♂; change A to USNM).

*crinicauda* Edwards

parvus Taylor, 1912. Townsend 1990:118 (? add ♂ syntype; BM).

*cuyanus* Duret

Harbach et al. 1991:193 (holotype ♂; change A to USNM).

*decens* Theobald

Harbach 1988:44 (lectotype ♂ desig.; BM).

masculus Theobald, 1901. Harbach 1988:44 (lectotype ♂ desig.; BM).

minutus Theobald, 1905. Harbach 1988:44 (lectotype ♂ desig.; BM).

nigrocostalis Theobald, 1909. Harbach 1988:44 (lectotype ♂ desig.; BM).

lividocostalis Graham, 1910. Harbach 1988:45 (lectotype ♂ desig.; BM).

*duttoni* Theobald

Harbach 1988:82 (lectotype ♀ desig.; BM).

dissimilis Theobald, 1901. Harbach 1988:82 (lectotype ♂ desig.; BM).

hirsutipalpis Theobald, 1901. Harbach 1988:82 (lectotype ♂ desig.; BM).

bifoliata Theobald, 1905. Harbach 1988:82 (lectotype ♂ desig.; BM).

albovirgatus Graham, 1910. Harbach 1988:82 (lectotype ♂ desig.; BM).

*edwardsi* Barraud

Lee et al. 1989a:117 (change BM to LU).

*fuscocephala* Theobald

fuscitarsis Barraud, 1924. Bram 1967:188 (lectotype ♂ desig.; BM).

*grahamii* Theobald

var. *farakoensis* Hamon, 1955. Townsend 1990:72 (add 2 ♂ syntypes; BM).

*guizhouensis* Chen and Zhao

1985:265 (♂\*, ♀\*, P\*, L\*). Type loc.: Guiyang, Guizhou Prov., P.R. China (syntypes 20 ♂, 25 ♀, 17 Pe, 50 Le; GMC).

*interfor* Dyar

Harbach et al. 1986:141 (from synonymy of *bidens*).

*invidiosus* Theobald

chloroventer Theobald, 1909. Townsend 1990:59 (add 2 syntypes; change ?BM to BM).

*jacksoni* Edwards

fuscifurcatus Edwards, 1934. Townsend 1990:77 (holotype ♂; BM—invalidates lectotype desig. by Sirivanakarn 1976:151). (Note 16).

*lactator* Dyar and Knab

Strickman and Pratt 1989:562 (from synonymy of *corniger*).

*litwakae* Harbach

1985b:255 (♂\*, ♀, P\*, L\*). Type loc.: Mazeras, Mambasa District, Coast Region, Kenya (holotype ♂ & Pe, Le; USNM).

*mimulus* Edwards

Sirivanakarn 1976:159 (lectotype ♂ desig.; BM). Townsend 1990:105 (invalidates lectotype desig. by Sirivanakarn 1976). (Note 17).

mossmani Taylor, 1915. Lee et al. 1989a:138 (2 syntypes; change US to ANIC).

*palpalis* Taylor

Marks in Lee et al. 1989a:151 (holotype ♀; change US to ANIC, from synonymy of *annulirostris*).

*paramaxi* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

*pipiens* Linnaeus

Harbach et al. 1985:9 (neotype ♂ & Pe.Le desig.; USNM).

bifurcatus Linnaeus, 1758. Harbach et al. 1985:7 (lectotype ♂ desig.).

molestus Forskal 1775. Harbach et al. 1984:573 (synonymy: neotype ♂ & Pe.Le desig.; USNM). Lee et al. 1989a:143 (improper desig. as species).

domesticus Germar, 1817. Harbach 1988:229 (from synonymy of molestus).

agilis Bigot, 1889. Townsend 1990:38 (add ♀ syntype; BM).

haematophagus Ficalbi, 1893. Harbach 1988:230 (from synonymy of molestus).

quasimodestus Theobald, 1905. Harbach 1988:230 (from synonymy of molestus).

autogenicus Roubaud, 1935. Harbach 1988:230 (from synonymy of molestus).

bebericus Roubaud, 1935. Harbach 1988:230 (from synonymy of molestus).

sternopallidus Roubaud, 1945. Harbach 1988:231 (from synonymy of molestus).

sternopunctatus Roubaud, 1945. Harbach 1988:231 (from synonymy of molestus).

calloti Rioux and Pech, 1959. Harbach 1988:230 (synonymy).

erectus Iglisch, 1977. Harbach 1988:231 (synonymy).

torridus Iglisch, 1977. Harbach 1988:231 (synonymy).

*poicilipes* (Theobald)

quasigelidus Theobald, 1903. Harbach 1988:92 (lectotype ♀ desig.; BM).

madagascariensis Ventrillon, 1905. Harbach 1988:92 (lectotype ♀ desig.; MNHP).

auritaenia Enderlein, 1920. Harbach 1988:92 (lectotype ♀ desig.; BM).

*pruina* Theobald

ssp. *eschirasi* Galliard, 1931. Townsend 1990:71 (12 syntypes; change LU to BM).

*pseudostigmatosoma* Strickman

1990:144 (♂\*, ♀\*, P\*, L\*). Type loc.: Llano Guagololo, La Paz Department, Honduras (holotype ♂ & Pe.Le; USNM).

*quinquefasciatus* Say

macleayi Skuse, 1889. Lee et al. 1989a:166 (holotype ♀; change MM to ANIC).

cartroni Ventrillon, 1905. Harbach 1988:31 (lectotype ♀ desig.; MNHP).

*riojanus* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

*simpsoni* Theobald

Harbach 1988:75 (lectotype ♂ desig.; BM).

richteri Ingram and de Meillon, 1927. Harbach 1988:75 (lectotype ♂ desig.; BM).

mauritanicus Callot, 1940. Harbach 1988:75 (synonymy).

*sinaiticus* Kirkpatrick

Townsend 1990:135 (add 9 syntypes; BM).

*sitiens* Wiedemann

salus Theobald, 1908. Harbach 1988:87 (lectotype ♂ desig.; BM).

bancrofti Theobald, 1901. Marks in Lee et al. 1989a:225 (from synonymy of *annulirostris*).

saibaii Taylor, 1912. Lee et al. 1989a:225 (holotype ♀; change US to ANIC).

paludis Taylor, 1913. Lee et al. 1989a:225 (holotype ♀; change US to ANIC).

annulata Taylor, 1914. Lee et al. 1989a:225 (2 syntypes; change US to ANIC).

milni Taylor, 1914. Lee et al. 1989a:225 (2 syntypes; change US to ANIC).

*spinosus* Lutz

Lourenco de Oliveira and Townsend 1989:431 (neotype ♂ & Pe.Le desig.; FSP).

*squamosus* (Taylor)

Lee et al. 1989a:245 (holotype ♀; change US to ANIC).

- annulirostris Taylor, 1914 (Leucomyia). Lee et al. 1989a:245 (2 syntypes; change US to ANIC).
- stigmatosoma Dyar  
Strickman 1988:490 (from synonymy of peus); Eldridge and Harbach 1989:247 (conservation of name *stigmatosoma*); International Commission on Zoological Nomenclature 1991:179 (validation of name *stigmatosoma*).
- eumimetes Dyar and Knab, 1908. Strickman 1988:490 (synonymy).
- telesilla de Meillon and Lavoipierre  
Townsend 1990:141 (2 syntypes; add BM). Segerman 1990:54 (invalid holotype ♂). (Note 18).
- theileri Theobald  
pettigrewii Theobald, 1910. Townsend 1990:120 (holotype ♀; change ?BM to BM).  
onderstepoortensis Theobald, 1911. Townsend 1990:115 (6 syntypes; change ?BM to BM).  
alpha Seguy, 1924. Harbach 1988:61 (synonymy, lectotype L illustration desig.; specimen NE?).
- thriambus Dyar  
Strickman 1988:490 (from synonymy of peus); Eldridge and Harbach 1989:247 (conservation of name *thriambus*); International Commission on Zoological Nomenclature 1991:179 (validation of name *thriambus*).
- affinis Adams, 1903. Strickman 1988:490 (synonymy).
- univittatus Theobald  
montforti Ventrillon, 1905. Townsend 1990:106 (lectotype ♂; change MNHP to BM).
- verutus Harbach  
1987:216 (♂\*, ♀, P\*, L\*). Type loc.: Kasawe Forest Reserve, Moyamba District, Southern Prov., Sierra Leone (holotype ♂ & Pe,Le: USNM).
- vicinus (Taylor)  
Lee et al. 1989a:265 (2 syntypes; change US to ANIC).  
annulata Taylor, 1914 (Leucomyia). Lee et al. 1989a:265 (2 syntypes; change US to ANIC).
- whitmorei (Giles)  
Townsend 1990:151 (lectotype ♀ desig.; BM).
- yojoae Strickman  
1990:148 (♂\*, ♀\*, P\*, L\*). Type loc.: La Joya, Cortes Department, Honduras (holotype ♂ & Pe,Le: USNM).

### Subgenus *Culiciomyia* Blanchard

- Thaiomyia Bram, 1966. Harrison 1987:111 (synonymy).
- azurini Toma, Miyagi and Cabrera  
1984:172 (♂\*, ♀\*, P\*, L\*). Type loc.: White Beach, Puerto Princesa, Palawan Is., Philippines (holotype ♂ & Pe,Le; NMST).
- dispectus Bram  
Harrison 1987:113 (from subgenus Thaiomyia).
- hainanensis Chen  
Harrison 1987:113 (from subgenus Thaiomyia).
- nebulosus Theobald  
Townsend 1990:108 (change BM to LU).  
nigrochaetae Theobald, 1901. Townsend 1990:111 [add 2 syntypes; change ?NE to BM].

Knight and Stone (1977:292) erroneously placed syntype ♂ of *nigrochaetae* as synonym of *Coquillettidia metallica* (Theobald)].

*papuensis* (Taylor)

Lee et al. 1989b:21 (holotype ♀: change US to ANIC).

*rajah* Tsukamoto

1989:216 (♂, ♀, P\*, L\*). Type loc.: Mt. Kinabalu, Sabah, Malaysia (holotype ♂: NMST).

*spathifurca* (Edwards)

*stylifurcatus* Carter and Wijesundara. 1948. Townsend 1990:137 (lectotype ♂ design., BM).

*spiculostylus* Chen

1989:86 (♂\*, ♀\*, L\*). Type loc.: Mengla Xian, Xishuangbanna, Yunnan Prov., P.R. China (holotype ♂: GMC).

### Subgenus *Eumelanomyia* Theobald

*castor* de Meillon and Lavoipierre

Segerman 1990:54 (holotype ♂: change IERT to SAIM).

*foliatus* Brug

Townsend 1990:74 (lectotype ♂ design.: BM).

*hackeri* Edwards

Townsend 1990:81 (holotype ♂: BM—invalidates lectotype design. by Sirivanakarn 1972:52). (Note 19).

*hayashii* Yamada

Townsend 1990:82 (12 syntypes; change IID to BM).

*oresbius* Harbach and Rattanarithikul

1988:69 (♂\*, ♀, P\*, L\*). Type loc.: Doi Inthanon, Chom Thong, Chiang Mai Prov., Thailand (holotype ♂ & ♀: USNM).

*richardgarciai* Jeffery, Oothuman and Rudnick

1987:140 (♂\*). Type loc.: Pasoh Forest Reserve, Negeri Sembilan, Malaysia (holotype ♂: USNM).

*rima* Theobald

*koumbai* Gaillard, 1931. Townsend 1990:91 (3 syntypes; change LU to BM).

*rubinotus* Theobald

Townsend 1990:129 (lectotype ♀ design.: BM).

*wansoni* Wolfs

Townsend 1990:149 (add 2 syntypes; BM).

### Subgenus *Kitzmilleria* Danilov

*Kitzmilleria* Danilov, 1989:792. Type species: *Culex moucheti* Evans.

*moucheti* Evans

Danilov 1989:792 (from subgenus *Culex*).

### Subgenus *Lasiosiphon* Kirkpatrick

*adairi* Kirkpatrick

*pluvialis* Kirkpatrick, 1925. Harbach et al. 1989:320 (syntypes; change LU to DAC and ESE); Townsend 1990:122 (add 8 syntypes; BM).

**Subgenus *Lophoceraomyia* Theobald***bengalensis* Barraud

Townsend 1990:51 (lectotype ♂ desig.; change LU to BM).

*cubiculi* Marks

Marks in Lee et al. 1989b:94 (*nomen novum* for *Lophoceraomyia annulata* Taylor, 1916 (*non* Schrank, 1776), from synonymy of *fraudatrix*: 4 syntypes; change US to ANIC).

Townsend 1990:43 (syntype ♂; change LU to BM).

*fraudatrix* (Theobald)

Lee et al. 1989b:105 [invalid lectotype desig. by Sirivanakarn (1968:156)]. (Note 20).

*gagnei* Evenhuis

Evenhuis and Gon 1989:209 (*nomen novum* for *ornatus* Theobald, 1905, preoccupied by *ornatus* Meigen, 1818).

*hewitti* (Edwards)

Townsend 1990:82 (holotype ♂: BM—invalidates lectotype desig. of Sirivanakarn 1977:132). (Note 21).

*insequens* Marks

Marks in Lee et al. 1989b:120 (*nomen novum* for *cairnsensis* Taylor, 1919:837 (*non cairnsensis* Taylor, 1919:829), from synonymy of *fraudatrix* (2 syntypes; change US to ANIC).

*pseudorubithoracis* Sirivanakarn

1968:178 (holotype ♂; change BBM to LU). (Note 22).

*quadripalpis* (Edwards)

*sylvestris* Leicester, 1908. Townsend 1990:139 (lectotype ♂; change NE to BM).

*sangenluoensis* Wang

1984:217 (♂\*, ♀\*, L\*). Type loc.: Wanning, Hainan, Sangenluo Commune, P.R. China (holotype ♂: TMMC).

**Subgenus *Lutzia* Theobald***tigripes* De Grandpre and De Charmoy

Townsend 1990:142 (add 2 syntypes; BM).

**Subgenus *Maillotia* Theobald***deserticola* Kirkpatrick

Harbach 1985a:84 (from subgenus *Neoculex*); Harbach et al. 1989:320 (syntypes; change LU to DAC and ESE); Townsend 1990:67 (add 6 syntypes; BM).

*hortensis* Ficalbi

Townsend 1990:84 (12 syntypes; change LU to BM).

*pulchrithorax* Edwards

*lineata* Theobald, 1912. Townsend 1990:94 (add 3 syntypes; BM).

*salisburyensis* Theobald

*bostocki* Theobald, 1905. Townsend 1990:53 (holotype ♀; change NE to BM).

**Subgenus *Melanoconion* Theobald***aliciae* Duret

Harbach et al. 1991:192 (holotype ♂; change A to USNM).

*alvarezi* Sutil Oramas, Pulido F. and Amarista M.

1987:83 (♂\*). Type loc.: Chircola, Apure State, Venezuela (holotype ♂: DERM).

*anoplicitus* Forattini and Sallum

1989a:1 (♂\*). Type loc.: Vilarinho, Itapitangui, Sao Paulo State, Brazil: (holotype ♂, FSP).

*bahiensis* Duret

Harbach et al. 1991:192 (holotype ♂: change A to USNM).

*bejaranoi* Duret

Harbach et al. 1991:192 (holotype ♂: change A to USNM).

*cedecei* Stone and Hair

Cupp in Weaver et al. 1986:619 (from synonymy of *taeniopus*).

*contei* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*crisovaoi* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*delpontei* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*ernanii* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*faurani* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*ferreri* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*flochi* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*galvaoi* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*garcesi* Duret

Harbach et al. 1991:193 (holotype ♂: change A to USNM).

*glyptosulpinx* Harbach, Peyton and Harrison

1984:186 (♂\*, ♀\*, P\*, L\*). Type loc.: Rincon Del Tigre, Sandoval Prov., Santa Cruz Dept., Bolivia (holotype ♂ & Pe.Le: USNM).

*guedesi* Mattos and Xavier

1991:193 (♂\*). Type loc.: Lagoa dos Mares, Lagoa Santa, Minas Gerais State, Brazil (holotype ♂: FSP).

*herrerai* Sutil Oramas, Pulido F. and Amarista M.

1987:81 (♂\*). Type loc.: Jabilla, Quesedas del Medio, Apure State, Venezuela (holotype ♂: DERM).

*isabelae* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*johnnyi* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*milwardi* Xavier and da Silva Mattos

Forattini et al. 1988:535 (holotype ♂: change A to FSP).

*misionensis* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).



*nicaroensis* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*ocellatus* Theobald

Townsend 1990:114 (change BM to LU).

*orfilai* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*palaciosi* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*pereyrai* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*phlabistus* Dyar

kerri Duret, 1968. Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*rabelloi* Forattini and Sallum

1987a:130 (♂\*, ♀\*, P\*, L\*). Type loc.: Pariquera-Mirim, Pariquera-Acu County, Sao Paulo State, Brazil (holotype ♂ & Pe.Le: FSP).

*rachoui* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*ribeirensis* Forattini and Sallum

1985:171 (♂\*, ♀\*, P\*, L\*). Type loc.: Experimental Station of Ribeira Valley, Sao Paulo State, Brazil (holotype ♀ & Pe.Le: FSP).

*silvai* Duret

Harbach et al. 1991:194 (holotype ♂: change A to USNM).

*spathulatus* Forattini and Sallum

1987b:167 (♂\*). Type loc.: Santa Helena Farm, Sao Jao de Boa Vista County, Sao Paulo State, Brazil (holotype ♂: FSP).

*theobaldi* (Lutz)

Townsend 1990:142 (change BM, ?IOC to BM).

chrysonotum Dyar and Knab, 1908. Forattini and Sallum 1989b:201 (synonymy).

chrysothorax Newstead and Thomas, 1910. Townsend 1990:60 (change BM, ?IOC to BM).

**Subgenus *Microculex* Theobald***davisi* Kumm

Townsend 1990:65 (26 syntypes: change LU to BM).

*siphanulatus* Lourenco de Oliveira and da Silva

1987:101 (♂\*, ♀\*, P\*, L\*). Type loc.: Granjas Calabria, Jacarepagua, Rio de Janeiro, Brazil (holotype ♂ & Pe.Le: IOC).

**Subgenus *Neoculex* Dyar***douglasi* Dobrotworsky

Lee et al. 1988b:24 (holotype ♂: change CSIR to NMM).

*fergusoni* (Taylor)

Lee et al. 1988b:26 (type ♀: change US to ANIC).

**Subgenus *Tinolestes* Coquillett***breviculus* Senevet and Abonnenc

mojuensis Duret and Damasceno, 1955. Harbach et al. 1991:194 (holotype ♂: change A to USNM).

**Subgenus uncertain**

*cairnsensis* (Taylor)

Lee et al. 1988b:41 (holotype ♀; change US to ANIC).

*inornata* (Theobald)

Townsend 1990:86 (improper transfer to subgenus *Melanoconion* from "subgenus uncertain" of Knight and Stone 1977:272).

***Nomen Dubium***

*novaeguineae* Evenhuis

Evenhuis and Gon 1989:210 (*nomen novum* for *ventralis* Walker, 1865; preoccupied by *ventralis* Walker, 1860).

**Tribe Culisetini****Genus *Culiseta* Felt****Subgenus *Austrotheobaldia* Dobrotworsky**

*littleri* (Taylor)

Lee et al. 1988b:47 (holotype ♀; change US to ANIC).

**Subgenus *Culicella* Felt**

*fumipennis* (Stephens)

Townsend 1990:76 (lectotype ♀ desig.: BM).

*setivalva* (Monchadskii, 1936). Danilov 1984:313 (synonymy).

*weindorferi* (Edwards)

Lee et al. 1988b:66 (holotype ♂; change LU to ANIC).

**Subgenus *Culiseta* Felt**

*atlantica* (Edwards)

Townsend 1990:47 (lectotype ♀ desig.: BM).

*bergrothi* (Edwards)

Townsend 1990:51 (syntype ♀; change BM, SM & HM? to BM).

**Tribe Ficalbiini****Genus *Ficalbia* Theobald**

*minima* (Theobald)

Townsend 1990:105 (lectotype ♂ desig.: BM).

**Genus *Mimomyia* Theobald****Subgenus *Etorleptiomyia* Theobald**

*elegans* (Taylor)

Lee et al. 1988c:12 [holotype ♀; change US to ANIC; invalid neotype desig. by Taylor (1929:271)].

*martinei* (Doucet)

Service 1990:106 (from subgenus *Ingramia*).

**Subgenus *Ingramia* Edwards**

Ward 1984:246 (erroneous citation as genus).

***brygooi* Grjebine**

1986:119 (♂\*, P\*, L\*). Type loc.: Manakara, Fianarantsoa, Madagascar (holotype L: SSC).

***collessi* Grjebine**

1986:124 (♂\*, ♀\*, P\*, L\*). Type loc.: Manakara, East Coast, Madagascar (holotype ♂, Pe: SSC).

***levicastilloi* Grjebine**

1986:145 (P\*, L\*). Type loc.: Manakara, Fianarantsoa, Madagascar (holotype L: SSC).

***longicornis* Grjebine**

1986:149 (♂\*, ♀\*, P\*, L\*). Type loc.: Ambodiriana (forest), Tamatave Prov., Madagascar (holotype ♂ & Pe,Le: SSC).

***marksae* Grjebine**

1986:154 (♂\*, ♀\*, P\*, L\*). Type loc.: Manakara, Fianarantsoa Prov., Madagascar (holotype L: SSC).

***mattinglyi* Grjebine**

1986:158 (♂, P\*, L\*). Type loc.: Analamazaotra (forest), Perinet, Tamatave Prov., Madagascar (holotype L: SSC).

***milloti* Grjebine**

1986:163 (♂\*, ♀\*, P\*, L\*). Type loc.: Manombo, km. 745, route Tananarive-Tulear, Madagascar (holotype ♂ & Pe,Le: SSC).

***ramalai* Grjebine**

1986:169 (♀\*, P\*, L\*). Type loc.: La Mandraka, Tananarive Prov., Madagascar (holotype ♀ & Pe,Le: SSC).

***stellata* Grjebine**

1986:192 (♂\*, ♀, P\*, L\*). Type loc.: Perinet (forest), Moramanga region, Madagascar (holotype L: SSC).

***vansomerenae* Grjebine**

1986:199 (L\*). Type loc.: Lokobe reserve, Nosy Be Is., Madagascar (holotype L: SSC).

**Subgenus *Mimomyia* Theobald*****chamberlaini clavipalpus* (Theobald)**

Townsend 1990:61 (add syntype ♂: BM, unjustified elevation to species). (Note 14).

***chamberlaini metallica* (Leicester)**

Lee et al. 1988c:23 (from variety to subspecies).

**Tribe Hodgesiini****Genus *Hodgesia* Theobald*****cairnsensis* Taylor**

Lee et al. 1988b:90 (holotype ♀; change US to ANIC).

***quasisanguinae* Leicester**

***triangulatus*** Taylor, 1914. Lee et al. 1988b:94 (holotype ♀; change US to ANIC).

***sanguinae* Theobald**

Townsend 1990:130 (lectotype ♀ desig.; BM).

*spoliata* Edwards

Lee et al. 1988b:100 (add syntype ♀; ANIC).

**Tribe Mansoniini**

**Genus *Coquillettidia* Dyar**

**Subgenus *Coquillettidia* Dyar**

*fuscopteron* (Theobald)

Marks in Lee et al. 1988d:80 (from synonymy of *crassipes*).

*giblini* (Taylor)

Lee et al. 1988d:92 (4 syntypes; change US to ANIC).

*linealis* (Skuse)

Lee et al. 1988d:97 (holotype ♀; change MM to ANIC).

*memorans* (Bonne-Wepster)

Townsend 1990:103 (holotype ♀; change GLB to BM).

*nigrochracea* (Bonne-Wepster)

Lee et al. 1988d:107 (6 syntypes; change GLB to LM and ITH).

*nigrosignata* (Edwards)

Townsend 1990:111 (syntype ♀; change LU to BM).

**Genus *Mansonia* Blanchard**

**Subgenus *Mansonioides* Theobald**

*papuensis* (Taylor)

Lee et al. 1988b:133 (invalid holotype ♀; change US to ANIC); Townsend 1990:118 (syntype ♀; BM). (Note 23).

*septempunctata* Theobald

bonnewepsterae van den Assem. 1958. Marks in Lee et al. 1988b:137 (synonymy).

**Tribe Orthopodomyiini**

**Genus *Orthopodomyia* Theobald**

*andamanensis* Barraud

Zavortink 1968:141 (lectotype desig.; BM).

*antanosyorum* Rodhain and Boutonnier

1984:220 (♂\*, ♀\*, P, L). Type loc.: Andaka plain, near Fort-Dauphin, Madagascar (holotype ♀; PIP).

*madecassorum* Rodhain and Boutonnier

1984:228 (♀). Type loc.: Perinet forest, Madagascar (holotype ♀; PIP).

*pulcripalpis* (Rondoni)

Snow 1986:361 (corrected specific epithet from pulchripalpis, Article 32b, ICZN 1985). albionensis MacGregor, 1919. Townsend 1990:39 (lectotype ♂; change ?BM to BM).

**Tribe Sabethini**

**Genus *Limatus* Theobald**

*durhami* Theobald

curvirostris Laveran, 1902. Townsend 1990:65 (syntype ♂; change ?BM to BM).

**Genus *Phoniomyia* Theobald**

*deanei* Lourenco de Oliveira

1983:501 (♂\*, ♀\*). Type loc.: Granjas Calabria, Jacarepagua, Rio de Janeiro, Brazil (holotype ♂ & Pe,Le; IOC).

**Genus *Sabethes* Robineau-Desvoidy****Subgenus *Davismyia* Lane and Cerqueira**

*Davismyia* Lane and Cerqueira, 1942. Harbach and Peyton 1991:149 (from genus *Wyeomyia*). *petrocchiaie* (Shannon and del Ponte)

Harbach and Peyton 1991:157 (from genus *Wyeomyia*, holotype; change USNM to NE).

**Subgenus *Peytonulus* Harbach**

*Peytonulus* Harbach 1991:1. Type species: *Sabethinus aurescens* Lutz.

*aurescens* (Lutz)

Harbach 1991:1 (from subgenus *Sabethinus*).

*fabricii* Lane and Cerqueira

Harbach 1991:1 (from subgenus *Sabethinus*).

*gorgasi* Duret

Harbach et al. 1991:193 (holotype ♂; change A to USNM). Harbach 1991:1 (from subgenus *Sabethinus*).

*identicus* Dyar and Knab

Harbach 1991:1 (from subgenus *Sabethinus*).

*soperi* Lane and Cerqueira

Harbach 1991:1 (from subgenus *Sabethinus*).

*undosus* (Coquillett)

Harbach 1991:1 (from subgenus *Sabethinus*).

*whitmani* Lane and Cerqueira

Harbach 1991:1 (from subgenus *Sabethinus*).

**Genus *Topomyia* Leicester****Subgenus *Suaymyia* Thurman**

*mengi* Dong, Wang and Lu

1990:64 (♂\*). Type loc.: Mengla County, Yunnan Prov., P.R. China (holotype ♂; YIM).

*spathulirostris* Edwards

Miyagi, Toma, Ramakrishna and Ramalingam 1989:41 (from subgenus *Topomyia*).

*suchariti* Miyagi and Toma

1989:16 (♂\*, P\*, L\*). Type loc.: Trak Nong, Chanthaburi Prov., Thailand (holotype ♂ & Pe,Le; USNM).

*tumetarsalis* Chen and Zhang

1988:213 (♂\*, ♀\*, P\*, L\*). Type loc.: Luo-tian County, Guizhou Prov., P.R. China (holotype ♂; GMC).

**Subgenus *Topomyia* Leicester**

*angkoris* Klein

Ward 1984:251 (ankoris, spelling error).

*baolini* Gong

1989b:220 (♂\*, ♀\*). Type loc.: Yingjiang County, Yunnan Prov., P.R. China (holotype ♀; YIE).

*danaraji* Ramalingam

1988:245 (♂\*, P\*). Type loc.: The Gap, Selangor, Peninsular Malaysia (holotype ♂ & Pe: USNM).

*hardini* Miyagi, Toma and Ramalingam

1989:91 (♂\*, ♀, P\*, L\*). Type loc.: Mt. Serapi, Kaman, Kuching, Sarawak, Malaysia (holotype ♂ & Pe.Le: USNM).

*hirtusa* Gong

1989a:90 (♂\*). Type loc.: Yunnan, P.R. China (holotype ♂; YIE).

*malaysiensis* Ramalingam and Banu

1987:119 (♂\*, ♀\*, P\*, L\*). Type loc.: Tambunan, Sabah, Malaysia (holotype ♂; USNM).

*sabahensis* Ramalingam and Ramakrishna

1988:34 (♂\*, ♀\*, P\*, L\*). Type loc.: Semporna, Sabah, Malaysia (holotype ♂ & Pe.Le: USNM).

*sylvatica* Lu, Dong and Wang

1986:406 (♂\*). Type loc.: Mengla, Yunnan Prov., P.R. China (holotype ♂; YIM).

*yongi* Miyagi, Toma and Ramalingam

1991:185 (♂\*, ♀, P\*, L\*). Type loc.: Hulu Gombak Forest Reserve, Selangor, Darul Ehsan, Malaysia (holotype ♂; USNM).

*zhangii* Gong

1991:228 (♂\*, ♀, L\*). Type loc.: Dulong River, Gongshan County, Yunnan Prov., P.R. China (holotype ♀; YIE).

**Genus *Trichoprosopon* Theobald***compressum* Lutz

Townsend 1990:62 (add 2 syntypes: BM).

*palliventer* (Lutz)

Townsend 1990:116 (lectotype ♂; change BM, ?IOC and FMP to BM).

**Genus *Tripteroides* Giles****Subgenus *Polylepidomyia* Theobald***altivallis* Bonne-Wepster

Lee et al. 1989c:25 (holotype ♀; change LM to ITH).

*apicotriangulatus* (Theobald)

Lee et al. 1989c:26 (from synonymy of *atripes*).

*atripes* (Skuse)

Lee et al. 1989c:33 (holotype ♀; change MM to ANIC).

**Subgenus *Rachionotomyia* Theobald***aranoides* (Theobald)

*inornata* Theobald, 1910. Townsend 1990:87 (holotype ♂; change IM to BM).

*nepenthis* (Edwards)

Townsend 1990:109 (lectotype ♂ design.; BM).

**Subgenus *Rachisoura* Theobald**

*adentata* van den Assem

Lee et al. 1989c:78 (holotype ♂ & Le; change LM to ITH).

*concinus* Lee

Lee et al. 1989c:84 (from subgenus uncertain).

*cutti* van den Assem

Lee et al. 1989c:87 (holotype ♂ & Le; change LM to ITH).

*exnebulis* Bonne-Wepster

Lee et al. 1989c:88 (holotype ♀; change LM to ITH).

*felicatus* Bonne-Wepster

Lee et al. 1989c:89 (holotype ♀; change LM to ITH).

*filipes* (Walker)

papua Brug 1934. Marks in Lee et al. 1989c:90 (synonymy).

*flabelliger* Bonne-Wepster

Lee et al. 1989c:96 (holotype ♀; change LM to ITH).

*obscurus* Brug

subobscurus Lee, 1946. Marks in Lee et al. 1989c:111 (synonymy).

*plumiger* Bonne-Wepster

Lee et al. 1989c:116 (holotype ♀; change LM to ITH).

*subnudipennis* (Edwards)

Lee et al. 1989c:121 (from subgenus uncertain).

*sylvestris* (Theobald)

hilli (Taylor, 1914). Lee et al. 1989c:122 (from synonymy of *filipes*).

**Subgenus *Tripteroides* Giles**

*bambusa* (Yamada)

Townsend 1990:50 (add 11 syntypes; BM).

*bimaculipes* (Theobald)

Townsend 1990:52 (lectotype ♀ desig.; BM).

ornata Taylor 1914. Lee et al. 1989c:130 (holotype ♀; change US to ANIC).

*indicus* (Barraud)

Townsend 1990:85 (add 4 syntypes; BM).

*latispinus* Gong and Ji

1989:482 (♂\*, ♀). Type loc.: Dehong Zhou, Yunnan Prov., P.R. China (holotype ♂; YIE).

*plumosus* (Brug)

Townsend 1990:122 (add 2 syntypes; change ?ITH to BM).

*quasiornatus* (Taylor)

Lee et al. 1989c:168 (holotype ♀; change US to ANIC).

**Genus *Wyeomyia* Theobald****Subgenus *Caenomyiella* Harbach and Peyton**

*Caenomyiella* Harbach and Peyton, 1990:16. Type species: *Sabethes fernandezyepezi* Cova Garcia, Sutil Oramas and Pulido F.

*fernandezyepezi* Cova Garcia, Sutil Oramas and Pulido F.

Harbach and Peyton 1990:16 (from genus *Sabethes*).

**Subgenus *Dendromyia* Theobald**

*forcipenis* Lourenco de Oliveira and da Silva

1985:321 (♂\*, ♀, P\*, L\*). Type loc.: Granjas Calabria, Jacarepagua, Rio de Janeiro, Brazil (holotype ♂ & Pe, Le: IOC).

*gutierrezii* Duret

Harbach et al. 1991:194 (holotype ♂: from A to USNM).

*sirivanakarni* Duret

Harbach et al. 1991:194 (holotype ♂: from A to USNM).

**Subgenus *Exallomyia* Harbach and Peyton**

*Exallomyia* Harbach and Peyton, 1992:92. Type species: *Wyeomyia tarsata* Lane and Cerqueira.

*arborea* Galindo, Carpenter and Trapido

Harbach and Peyton 1992:103 (from genus *Wyeomyia*, subgenus *Davismyia*).

*carrilloi* (Sutil O. and Pulido F.)

Harbach and Peyton 1992:96 (from genus and subgenus *Sabethes*).

*tarsata* Lane and Cerqueira

Harbach and Peyton 1992:92 (from subgenus *Dendromyia*).

**Subgenus *Wyeomyia* Theobald**

*oblita* (Lutz)

Townsend 1990:113 (add syntype ♀: BM).

**Subgenus *Zinzala* Zavortink**

*Zinzala* Zavortink, 1986:46. Type species: *zinzala* Zavortink.

*fishi* Zavortink

1986:55 (♂\*, ♀, P\*, L\*). Type loc.: km. 146, Santa Elena Road, Estado Bolivar, Venezuela (holotype ♂; CAS).

*zinzala* Zavortink

1986:50 (♂\*, ♀, P\*, L\*). Type loc.: Mount Roraima summit, Estado Bolivar, Venezuela (holotype ♂; CAS).

**Subgenus uncertain**

*ininicola* Fauran and Pajot

Harbach and Peyton 1991:150 (from subgenus *Davismyia*).

*schmusei* (Martini)

Harbach and Peyton 1991:150 (from subgenus *Davismyia*).

**Tribe Uranotaeniini****Genus *Uranotaenia* Lynch Arribalzaga****Subgenus *Pseudoficalbia* Theobald**

*ascidiicola* de Meijere

Townsend 1990:46 (erroneous syntype ♂: BM). Peyton 1977:68 (holotype ♂: AM).



*atra* Theobald

*nigerrima* Taylor, 1914. Lee et al. 1989c:192 (add 3 syntypes; change LU to ANIC);  
Townsend 1990:109 (add 2 ♀ syntypes; BM).

*combesi* Doucet

Townsend 1990:62 (?syntype L; BM).

*mengi* Chen, Wang and Zhao

1989:224 (♂\*, ♀\*, P\*, L\*). Type loc.: Chishui County, Guizhou Prov., P.R. China (holotype ♀; GMC).

**Subgenus *Uranotaenia* Lynch Arribalzaga***albescens* Taylor

Lee et al. 1989c:223 (add 2 types; change LU to ANIC).

*angolensis* Cunha Ramos

1985:74 (♂\*, ♀\*). Type loc.: Dundo, Angola (holotype ♂; IHMT).

*antennalis* Taylor

Lee et al. 1989c:233 (holotype ♀; change US to ANIC).

*bricenoi* Cova Garcia, Pulido, Escalante de Ugueto, Amarista and Mora R.

1987c:65 (♂\*, P\*, L\*). Type loc.: Cata public beach, Ocurare de las Costa municipality, Venezuela (holotype ♂ & Pe,Le; DERM).

*falcipes* Banks

Townsend 1990:72 (syntype ♂; from NE to BM).

*gabaldoni* Cova Garcia, Pulido F., Escalante de Ugueto and Mora R.

1987b:94 (♂\*, P\*, L\*). Type loc.: Capital (Caicara River), Apure State, Venezuela (holotype ♂ & Pe,Le; DERM).

*iriartei* Cova Garcia, Pulido F., Escalante de Ugueto and Mora R.

1987a:45 (♂\*, P\*, L\*). Type loc.: El Yaguel and Mantecal, Apure State, Venezuela (holotype ♂; DERM).

*lateralis* Ludlow

*propria* Taylor, 1914. Lee et al. 1989c:252 (holotype ♀; change US to ANIC).

*cairnsensis* Taylor, 1919. Lee et al. 1989c:252 (holotype ♀; change LU to ANIC).

*machadoi* Cunha Ramos

1986:110 (♂\*, ♀, P\*, L\*). Type loc.: Dundo, Angola (holotype ♂; NML).

*philonuxia* Philip

Arnaud 1979:58 (add syntype ♂; CAS).

*riverai* Duret

Harbach et al. 1991:194 (holotype ♂; change A to USNM).

*tibialis* Taylor

Lee et al. 1989c:290 (2 syntypes; change to ANIC).

**Subfamily Toxorhynchitinae****Genus *Toxorhynchites* Theobald****Subgenus *Toxorhynchites* Theobald***angustiplatus* Evenhuis and Steffan

1986:548 (♂\*, ♀, P\*, L\*). Type loc.: Pacific Tin, Berjuntai, Batang, Selangor, Malaysia (holotype ♂ & Le; USNM).

*bengalensis* Rosenberg and Evenhuis

1985:36 (♂\*, P\*). Type loc.: Chunaraghat, Sylhet District, Bangladesh (holotype ♂ & Pe,Le; USNM).

*brevipalpis* Theobald

ssp. *abyssinicus* Ribeiro

1991:43 (♂\*). Type loc.: Keffa Prov., Ethiopia (holotype ♂; BM).

*camaronis* Ribeiro

1991:50 (♂\*, ♀). Type loc.: Ototomo, Cameroun (holotype ♂; SSC).

*christophi* (Portschinsky)

*changbaiensis* Su and Wang, 1981. Danilov 1987a:152 (synonymy).

ssp. *aurifluus* (Edwards, 1921). Danilov 1987a:154 (from species to subspecies).

*dundo* Ribeiro

1991:50 (♂\*, ♀). Type loc.: Dundo, Angola (holotype ♂; IHMT).

*indicus* Evenhuis and Steffan

1986:558 (♂\*, ♀). Type loc.: Kuching, Sarawak, Malaysia (holotype ♂; BM).

*lewisi* Ribeiro

1991:53 (♂\*, ♀). Type loc.: Farangbaia, Sierra Leone (holotype ♂; BM).

*okinawensis* Toma, Miyagi and Tanaka

1990:345 (♂\*, ♀, P\*, L\*). Type loc.: Ada, Okinawajima, Japan (holotype ♀ & Pe,Le; HJ).

*rajah* Tsukamoto

1989:221 (♂, ♀, P\*, L\*). Type loc.: Mt. Kinabalu, Sabah, Malaysia (holotype ♂; NMST).

*ramalingami* Evenhuis and Steffan

1986:566 (♂\*, ♀, P\*, L\*). Type loc.: Bukit Puan Forest Reserve, Belait Dist., Brunei (holotype ♂ & Pe,Le; USNM).

*rickenbachii* Ribeiro

1991:54 (♂\*, ♀). Type loc.: Elouden, Cameroun (holotype ♂; SSC).

*rodhaini* Ribeiro

1991:57 (♀\*). Type loc.: Tai Forest, Ivory Coast (holotype ♀; PIP).

*speciosus* (Skuse)

Lee et al. 1988c:90 (holotype ♂; change MM to ANIC).

### Fossil Species

#### Genus *Asioculicus* Hong

*Asioculicus* Hong, 1976 (in Anonymous 1976:86). Type species: *damiaoensis* Hong.

*damiaoensis* Hong (Late Jurassic—Early Cretaceous)

1976 (in Anonymous 1976:86) (adult). Type loc.: Inner Mongolia and Liao Ning, P.R. China (LU).

*longipodus* Hong and Wang (? Lower Cretaceous)

1976 (in Anonymous 1976:87 (♀\*). Type loc.: Zhuo Zi Xian, Fu Sheng Gong, She, Hong Tu Wang, Inner Mongolia, P.R. China (LU).

#### Genus *Culex* Linnaeus

*erikae* Szadziewski and Szadziewska (Upper Eocene)

1985:515 (♀\*). Baltic amber (holotype ♀; MNB).

### Rejected Name

peus Speiser, *Culex*. United States.

1904:148. International Commission on Zoological Nomenclature. 1991:179 (suppression by Opinion 1644).

### Nomina nuda

ainshamsi Gad, El Said, Hassan and Shoukry, *Anopheles*

1987:214.

allopha (Lutz and Peryassu), *Anopheles*

Lourenco de Oliveira and Deane 1984:509.

melanotarsis Director General Medical Services, *Anopheles*, *Cellia*

1943:8. Lee et al. 1988a:314 (not validly published).

moenensis Ivengar, *Aedes*

1955:30. Unavailable name; Article 12a(i), ICZN 1985.

nigra Christophers, *Anopheles*

1924:45. Townsend 1990:109 (unavailable name; articles 11e and 12a, ICZN 1985).

papuensis De Rook, *Anopheles*

1935:25. Lee et al. 1988a:314 (probably a *Bironella* species).

solomonensis Cumpston, *Anopheles*

1924:1402. Unavailable name; Article 12a(i), ICZN 1985.

subcomplosa Del Ponte, *Wyeomyia* (*Dendromyia*)

1939:541. (Note 24).

### TYPE DEPOSITORIES

ESE Entomological Society of Egypt, Cairo, Egypt.

FSP Faculdade de Saude Publica, Universidade de Sao Paulo, Sao Paulo, Brazil.

HUJ Entomological Institute, Hokkaido University, Hokkaido, Japan.

IZ Institute of Zoology, Academia Sinica, Beijing, P.R. China.

KIM Kuming Institute of Medical Research, Kuming, P.R. China.

MNB Paleontologisches Museum, Museum fur Naturkunde, Berlin, Germany.

NIV National Institute for Virology, Sandringham, South Africa.

SIP Sichuan Institute of Parasitic Disease Control, Chengdu, P.R. China.

TMMC Department of Parasitology, Third Military Medical College, Chongqing, P.R. China.

VBDK Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya.

YIE Yunnan Institute of Epidemiology, Xiaguan, P.R. China.

YIM Yunnan Institute of Malaria Control, Simao, P.R. China.

### TAXONOMIC NOTES

1. Marks (1976) removed *Anopheles corethroides* from synonymy with *An. stigmaticus* Skuse through publication of the name in a list of the Culicidae of the Blackdown Tableland, Australia. Although she did not provide an explanation for the removal of *An. coreth-*

*roides* from synonymy, such a justification verifying the specific status of *An. corethroides* was provided in Lee et al. (1988a:54).

2. Hii et al. (1988) discussed the surname of the author of *Anopheles sulawesi* and pointed out that it should be Waktoedi rather than

Koesoemawinangoen as used by Knight and Stone (1977). According to Indonesian custom, the surname precedes the first name of an individual. Therefore, species described or coauthored by Waktoedi Koesoemawinangoen should have Waktoedi designated as the author. The following taxa listed with Koesoemawinangoen as sole or junior author need to be attributed to Waktoedi: *Anopheles* (*Anopheles*) *gigas pantjarbatu* Waktoedi, *Anopheles* (*Cellia*) *ludlowae torakala* Stoker and Waktoedi, *Anopheles* (*Cellia*) *sulawesi* Waktoedi [prior attribution by Hii et al. (1988)], *Anopheles* (*Cellia*) *tesselatus kalawara* Stoker and Waktoedi and *Anopheles* (*Cellia*) *albino* Stoker and Waktoedi (= *An. vagus*).

3. Gillies and Coetzee (1987) did not designate a type specimen nor the type depository in their original description of *Anopheles* (*Cellia*) *lounibosi*. Townsend (1990:96) suggested that the holotype might be in the ORSTOM collection at Bondy, France. In a 1991 letter, M.T. Gillies stated that the holotype was a 4th instar larva which was deposited in the Natural History Museum, London, with the following label: *Anopheles rabaiensis*, 28.vi.1977, coll. L.P. Lounibos in Pandanus rabaiensis, Kombeni R., Rabai, Kilifi Dist., KENYA.

4. Gillies and Coetzee (1987) did not mention the sex of the adult type specimen when they described *Anopheles* (*Cellia*) *vaneedeni*. Townsend (1990:146) stated that the holotype was a male. However, M.T. Gillies stated in a 1991 letter that he visited the Natural History Museum and examined the holotype which was a female. The specimen label reads: Pusela, Tzaneen, resting outside, det. M. Coetzee.

5. Townsend (1990:147) stated that the Natural History Museum collection contained nine syntypes of *Anopheles* (*Cellia*) *varuna* from Sri Lanka. These specimens cannot be syntypes as Iyengar (1924:25) stated: "Described from a type female and many co-type females from the vicinity of Calcutta, collected by me." Iyengar does mention an unspecified number of specimens of *An. varuna*

collected by R. Senior-White at Matale, Ceylon, but in no way could these specimens be construed as syntypes. The current location of Iyengar's type and cotypes is unknown (Harrison 1980).

6. The original description of *Aedes* (*Aedimorphus*) *bambiotai* did not mention the type locality other than give the country. Thomas F. Gaffigan examined the holotype male in the USNM and observed the following information upon the specimen labels: Ivory Coast:/Andiopodoume forest/RF 1-No. 1/-23.06.86/Ae bambiotai/B. Geoffroy Rec Det./Holotype/Ae. (Adm.)/bambiotai/Geoffroy.

7. *Aedes* (*Finlaya*) *gilcolladoi* was described by Sanchez-Covisa V. et al. (1985) from an unspecified number of larvae (more than 50) with neither a type designation nor a specified type locality other than "Espana Peninsular." The above specimens must be considered syntypes according to the ICZN 1985, Article 73b. Attempted correspondence to the authors did not produce a reply.

8. Knight and Marks (1952) designated a neotype female for *Aedes* (*Finlaya*) *mallochii* Taylor since they could find no specimens from the type series. In 1990, Townsend mentioned the presence of a syntype female in the Natural History Museum (BM) collection. Since this constitutes the rediscovery of a name-bearing type, this situation should be referred to the ICZN to rule whether the neotype of Knight and Marks is or is not to be retained as the name-bearing type (ICZN 1985, Article 75h).

9. The validity of the species name *Aedes* (*Levua*) *geoskusea* was discussed in detail by Lee et al. (1984:44), who contend that *Ae. suvae* Stone and Bohart, 1944 was the first validly published name for this species. I concur with the interpretation of Knight and Stone (1977) that *Ae. geoskusea* is a valid name on the basis of publication and priority (ICZN 1985, Articles 11a, 11b, 13a(i) and 23a).

10. The National Institute for Virology (NIV) maintained a number of type specimens after it became independent from the South Afri-

can Institute for Medical Research (SAIM). The primary types remaining at both institutes were listed by Segerman (1990). The disposition of the holotype of *Aedes (Ochlerotatus) juppi* was not mentioned in Segerman's paper. In a 1991 letter, J. Segerman stated: "I have checked with Dr. Peter Jupp at the National Institute for Virology and he tells me that the Holotype and Allotype of *Aedes (Ochlerotatus) juppi* are both still housed there."

11. The original description of *Aedes (Rusticoides) krymmontanus* omitted the exact type locality, sex of the holotype and type depository. A letter from E. V. Alekseev (1992) only mentioned the "southern and northern mountainsides of Crimean mountains . . . in the neighborhoods of Simferopol, Bachisaray, Alushta, Yalta and Pheodosia" and that the holotype was in the author's collection.

12. Stone et al. (1959) and Knight and Stone (1977) were usually quite accurate in their listings of the original descriptions of Culicidae in their catalogs. In the instance of two Afrotropical *Aedes* species, *Aedes (Stegomyia) calceatus* and *Aedes (Stegomyia) soleatus*, they erred by 17 years. They evidently missed the description of these two species by Edwards in 1924 in an appendix to a paper by W.E. Haworth and attributed both species to Edwards (1941). Townsend (1990) provided the correct citations.

13. A lectotype for *Aedes (Verrallina) varietas* was designated by Knight and Hull (1953:474) for the single male specimen from the type series in the BM. The identity of the specimen was subsequently confirmed by both Delfinado (1968:40) and Reinert (1974:92) even though the specimen lacked a lectotype label. Townsend (1990:147) affixed a label to the specimen and stated: "LECTO-TYPE male . . . here designated." Although Recommendation 72E of the ICZN (1985) recommends that name-bearing types should be labeled in such a manner that will unmistakably denote their status, the previous descriptions of the Knight and Hull lectotype were such that no confusion could occur con-

cerning the status of the specimen. Thus, the subsequent designation by Townsend (1990) was unjustified.

14. Townsend (1990:77) changed the status of *fuscus* from a synonym of *Armigeres (Armigeres) malayi* to a valid species. Since no justification was provided for this changed status, it should be considered as an unjustified action. A similar situation exists in respect to the improper elevation of *clavipalpus* from a subspecies of *Mimomyia (Mimomyia) chamberlaini* (Townsend 1990:61).

15. Belkin et al. (1968:13) indicated that the type of *Psorophora (Janthinosoma) chaquensis* was not present in the Instituto Nacional de Microbiologia, Buenos Aires, according to O.H. Casal. An acknowledgment was given to Alan Stone for examining material in the USNM so it may be assumed that Stone too did not find the type. While curating the USNM mosquito collection in 1992, T.V. Gaffigan found an adult female in a tray containing *Psorophora lutzii* which conformed to the description of the single female type described by Paterson and Shannon (1927:9) from Tres Pozos, Embarcacion, Salta. The specimen bears four labels in hand-printed letters, reading from top to bottom: 1) Tres Pozos/Embarcacion/Salta, 20-4-27/E. S. Shannon; 2) Type/Psorophora/chacoensis [sic]/Paterson & Shannon; 3) Psorophora/lutzii/Theob.; and 4) Psorophora/albipes Th. This specimen is undoubtedly the missing holotype.

16. Sirivanakarn (1976:151) designated a lectotype for *Culex (Culex) fuscifurcatus*. This was an invalid selection as Townsend (1990:77) stated that the holotype male of *fuscifurcatus* was deposited in the Natural History Museum.

17. Sirivanakarn (1976:159) designated a lectotype for *Culex (Culex) mimulus* from one of the two syntypes of this species from Kuching, Sarawak. However, Townsend (1990:105) said that Sirivanakarn did not label the lectotype specimen nor did he provide an indication in his paper which individual should be the lectotype. Since insufficient

data were presented for the recognition of the lectotype, this selection was invalid (ICZN 1985, Article 74b, Recommendation 74C).

18. *Culex* (*Culex*) *telesilla* was described from seven larval and seven pupal exuviae without designation of a type (de Meillon et al. 1945:91). The adult male and female of *Cx. telesilla* were later described by de Meillon (1947) with the statement: "The description of the larva of this species (De Meillon et al. Bull. ent. Res., 36, 91, 1945) was quoted from a manuscript by De Meillon and Lavoipierre. Mention of this was unfortunately omitted." De Meillon also stated that the types were deposited in the SAIM. Although de Meillon may have intended that an adult male be designated the holotype, the name *Cx. telesilla* must be based upon the specimens mentioned in the 1945 publication. These specimens should be considered syntypes; from which a lectotype can be designated.

19. Sirivanakarn (1972:52) designated a lectotype for *Culex* (*Culex*) *hackeri*. Townsend (1990:81) indicated that this was an invalid designation as Edwards labeled and designated a holotype male in his original publication.

20. Lee et al. (1989b:105) stated that the lectotype male of *Culex* (*Lophoceraomyia*) *fraudatrix* which was designated by Sirivanakarn (1968:156) was the same specimen which Colless (1960:256) used for the lectotype of *fraudatrix*. Since Sirivanakarn's designation of a lectotype (1968) occurred eight years after Colless' designation (1960), the later designation has no validity (ICZN 1985, Article 74a).  
21. Sirivanakarn (1977:132) designated a lectotype for *Culex* (*Lophoceraomyia*) *hewitti*. This was deemed unnecessary by Townsend (1990:82), who said that Edwards plainly indicate one of the males from the type series as the holotype.

22. Neil L. Evenhuis (1990 letter) was unable to find the holotype of *Culex* (*Lophoceraomyia*) *pseudorubithoracis* at the Bishop Museum where it was presumably deposited by the author. A search for the type in the USNM

by T.F. Gaffigan did not reveal it either. At present the status of the type may be considered as location unknown.

23. Taylor (1914:201) described *Mansonia* (*Mansonioides*) *papuensis* from four females, but did not designate a type. Lee et al. (1988b:133) said the holotype of *Mn. papuensis* was in the ANIC. This specimen can only be considered a syntype which is of equal status to the syntype in the Natural History Museum (Townsend 1990:118) since no subsequent author designated a lectotype.

24. Del Ponte (1939:541) published the name *Wyeomyia* (*Dendromyia*) *subcomplosa* as a new species in a table enumerating 5 character states for the identification of adult female Sabethini. In the table, both *subcomplosa* and *Wyeomyia* (*Dendromyia*) *complosa* were listed as possessing the same five character states. Since Del Ponte did not provide a means of differentiating this taxon, the name *subcomplosa* is not available (ICZN 1985, Article 13a(i)) and may be considered as a *nomen nudum*.

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